New Jersey Department of Transportation QUALITY IMPROVEMENT ADVISORY

QUALITY MANAGEMENT SERVICES

QIA No. QIA003
Approved
Date: September 30, 1996

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Process Affe	ected: Design	Right of Way	Utilities	⊠Environmental	ПН	listoric \(\sum_{\text{Construction}} \)
Bureaus Af	fected: All (CPM Units	Proc	cedure(s) Affected:	Project	Delivery Schedule
Route & Sec	ction: Route	206, Section 12E & 13	BF			
Route 206 from	n MP 53.2 to Norlay at differen	AP 59.883. The existing the cross slopes. The page	g pavement bas	se is concrete with 2% cr	oss slo	ng approximately 6.7 miles of pes with a variable amount of a 4" bituminous overlay
Nature of P	roblem(s):	There are several drain	age problems ar	reas within the project li	mits as	listed below:
but the cro project wa method of was only a milled at a gutter area residents' An inlet in bypassed t	ss slopes of the smilling and raccomplishing ccomplished of the complished of the complished of the consequent of the project are this inlet and categories.	e bituminous overlay we esurfacing and revising the milling was not sport the center portion of the center inlets were cover lawns.	were generally me the pavement of the road surfacture overlay was a red by the overlation collect the among downstream.	nuch steeper than this. It cross slopes to the current the milling machine was ace. This resulted in the applied, there was an ex- ay and drainage problem	ncluded nt stand s set to should cessive as occur	ang concrete was sloped at 2% I in the scope of the proposed lard of 2%. However, the mill 2% cross slopes, milling er area (outside) not being build up of overlay in the red including flooding of o it. Therefore, runoff as clogged with silt which
				s. The curbing and raise behind the newly instal		acts like a dam, restricting bing resulted.

Recommendation(s): The following is a list of recommendations developed from this particular project which can be applied to other similar projects to prevent recurrences.

- 1. When a proposal is made to modify existing cross slopes, designers should take special precaution to carefully evaluate and specify how this modification will be accomplished, what the associated impacts will be, and how the effects of these impacts will be mitigated. This will necessitate surveying and plotting the cross slopes during the design phases to determine the existing cross slopes and evaluate what the effects of the proposed cross slopes will be.
- 2. Pavement cores should be obtained during the design phase in order to accurately determine the amount of bituminous overlay over the existing concrete and to verify the cross slopes of the existing concrete.
- 3. Existing drainage systems must be checked to determine if they function adequately and ensure that the conform to acceptable design criteria, specifications and details. They should be upgraded and/or maintained (e.g. cleaned) as needed.
- 4. Major plan modifications must first be approved by project managers. They must also be contacted for assistance as soon as a major problem becomes evident so as to minimize impacts to as great a degree as possible. Contractors must also advise field personnel that a problem exists as soon as it becomes apparent.

Implementation: For future similar projects.					
Impact Assessment:	Cost Impact:				
Schedule Quality Cost Scope	Unknown at this time				